[METHOD OF IDENTIFYING PATHS WITH DELAYS DOMINATED BY A PARTICULAR FACTOR]

Abstract

A method of performing node-based static timing analysis on a digital network and a program storage device for implementing the method, wherein the method comprises partitioning timing delays in the digital network into portions attributable to a factor of interest and portions attributable to other factors; multiplying the timing delays by different weights based on the factor of interest to produce weighted timing delays; and using the multiplied timing delays to determine a relative impact of the factor of interest on the various paths in the digital network. The method further comprises setting arrival times of timing signals at digital network path start points to zero and identifying digital network paths whose timing delays are dominated by a particular factor of interest. The different weights comprise any of a positive weight, a negative weight, and a zero weight.